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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|---------------------------|---------------------|------------------|
| 10/050,273 | 01/16/2002 | Nandagopal Mysore Jayaram | | 7036 |

7590 06/01/2004
c/o Frost Brown Todd LLC
2200 PNC Center
201 East Fifth Street
Cincinnati, OH 45202

EXAMINER

ORTIZ, BELIX M

ART UNIT PAPER NUMBER

2175

DATE MAILED: 06/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/050,273

Applicant(s)

JAYARAM ET AL.

Examiner

Belix M. Ortiz

Art Unit

2175

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


DOV POPOVICI

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Information Disclosure Statement

1. Applicant is required to submit the proper IDS Form PTO –1449. The list of information complying with the identification requirements of 37 CFR 1.98(b) may not be incorporated into the specification of the application in which it is being supplied, but must be submitted in a separate paper. A separate list is required so that it is easy to confirm that applicant intends to submit an information disclosure statement and because it provides a readily available checklist for the examiner to indicate which identifies documents have been considered. The use of Form PTO-1449, Information Disclosure Citation, to list the documents is encourages.

Specification

2. The specification is objected to because the arrangement of the disclosed application does not conform with 37 CFR 1.77(b).

Section headings appear in bold and underlined throughout the disclosed specification. Section heading should not be bold faced and underlined.

Appropriate corrections are required based on the guidelines provided below:

3. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

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As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Objections

4. Claims 2-10, and 13-14 are objected to because of the following informalities: in claims 2, 4-8, 10, and 13 the pre-amble should end with a -- : --.

Claims 3-10 are objected to because they are dependent on objected to claim 2 above.

Claims 4-10 are further objected to because they are dependent on objected to claim 3 above.

Claims 9-10 are further objected to because they are dependent on objected to claim 6 above.

Claim 14 is further objected to because it is dependent on objected to claim 13 above.

Appropriate corrections are required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Abrams (U.S. patent 6,151,608).

As to claim 1, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) comprising:

- a set of mapping instructions (see column 1, lines 29-32; column 4, lines 31-37; column 6, lines 6-11; and column 7, lines 35-37);
- a target schema specification (see column 7, lines 25-26); and
- a generically coded database conversion engine wherein the database

conversion engine is coded to perform conversions independent of the specific source database and target database associated with a conversion (see column 1, lines 39-45 and column 5, lines 42-46);

wherein:

- data in the source database is sent to the database conversion engine (see figure 4);
- the target schema specification defines the target database (see column 5, lines 46-58);
- the set of mapping instructions defines at least one translation instruction for the translation of the source data from the source database to the target database (see column 7, lines 35-37);
- the database conversion engine receives the source data, the set of mapping instructions and the target schema specification (see figure 3);
- the database conversion engine parses the set of mapping instructions and the target schema specification (see figure 4);
- the database conversion engine performs the set of mapping instructions on the source data (see column 6, lines 6-11);
- the database conversion engine uploads a resulting set of data into the target database in accordance with the target schema specification (see column 9, lines 27-30).

As to claim 2, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising:

- a delimited source file associated with the source database (see column 6, lines 6-11);
- a mapping language (see column 2, lines 33-36);

wherein:

- a set of data in the delimited source file is sent to a database conversion engine (see column 6, lines 6-11);
- a set of mapping instructions is developed from the mapping language wherein the set of mapping instructions defines at least one translation instruction for the translation of the source data from the source database to the target database (see column 1, lines 28-31).

As to claim 3, Abrams teaches wherein the database conversion engine validates the source data and the database conversion engine validates the resulting set of data in accordance with the target schema specification (validated resulting set of data) (see column 5, lines 30-38).

As to claim 4, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising:

- a set of mapping instructions (see column 1, lines 29-32; column 4, lines 31-37; column 6, lines 6-11; and column 7, lines 35-37);

wherein:

-a set of mapping instructions is developed from the mapping language via an interface wherein the set of mapping instructions defines at least one translation instruction for the translation of the source data from the source database to the target database (see column 1, lines 28-31).

As to claim 5, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising:

- a set of mapping instructions (see column 1, lines 29-32; column 4, lines 31-37; column 6, lines 6-11; and column 7, lines 35-37);

wherein:

-a set of mapping instructions is developed from the extensible mapping language via an interface wherein the set of mapping instructions defines at least one translation instruction for the translation of the formatted source data from the source database to the target database (see column 1, lines 28-31).

As to claim 6, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising:

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- an industry-specific mapping instructions template (see column 18, lines 42-44);

wherein:

- a set of mapping instructions is developed from the industry-specific mapping instruction template and is further configured using the mapping language via a graphical user interface wherein the set of mapping instructions defines at least one translation instruction for the translation of the formatted source data from the source database to the target database (see column 18, lines 42-56).

As to claim 7, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising:

- a telecommunications-specific mapping instructions template (see column 2, lines 27-33).

wherein:

- a set of mapping instructions is developed from the telecommunications-specific mapping instruction template and is further configured using the mapping language via a graphical user interface wherein the set of mapping instructions defines at least one translation instruction for the translation of the formatted source data from the source database to the target database (see column 4, lines 24-31).

As to claim 8, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising:

- a billing-specific mapping instructions template (see column 14, lines 35-40).

wherein:

- a set of mapping instructions is developed from the billing-specific mapping instruction template and is further configured using the mapping language via a graphical user interface wherein the set of mapping instructions defines at least one translation instruction for the translation of the formatted source data from the source database to the target database (see column 4, lines 24-31).

As to claim 9, Abrams teaches wherein the database conversion engine parses the set of mapping instructions and concurrently performs the set of mapping instructions on the formatted source data to produce a resulting set of data (see figure 4; column 7, lines 35-37).

As to claim 10, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising:

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- a source extract format specification (see column 1, lines 19-22);

wherein:

- a basic business object is derived from the source database and the target database (see column 8, lines 41-43);
- the source extract format specification and the target schema specification are configured according to the basic business object (see column 8, lines 41-43);
- data in the source database is formatted according to the source extract format specification to produce a file with repetitive instances of the basic business object (formatted source data) (see column 5, lines 59-63);
- the database conversion engine parses the set of mapping instructions and concurrently performs the set of mapping instructions on the formatted source data and uploads a resulting set of data into the target database (see column 9, lines 27-30).

As to claim 11, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) comprising:

- a set of mapping instructions (see column 1, lines 29-32; column 4, lines 31-37; column 6, lines 6-11; and column 7, lines 35-37);
- a source extract format specification (see column 1, lines 19-22);
- a target schema specification (see column 7, lines 25-26); and
- a generically coded database conversion engine wherein the database

conversion engine is coded to perform conversions independent of the source database and target database associated with a conversion (see column 1, lines 39-45 and column 5, lines 42-46);

wherein:

- a basic business object is derived by analyzing information to be transferred from the source database to the target database (see column 7, lines 33-34);

- the source extract format specification and the target schema specification are configured according to the basic business object (see column 8, lines 41-43);

- data in the source database is sent to the database conversion engine (see figure 4);

- the target schema specification defines the target database (see column 5, lines 46-58);

- the set of mapping instructions defines at least one translation instruction for the translation of the source data from the source database to the target database (see column 7, lines 35-37);

- data in the source database is formatted according to the source extract format specification to produce a file with repetitive instances of the basic business object (formatted source data) (see column 5, lines 59-63);

- the database conversion engine receives the source data, the set of mapping instructions and the target schema specification (see figure 3);

- the database conversion engine parses the set of mapping instructions and the target schema specification (see figure 4);

- the database conversion engine performs the set of mapping instructions on the source data (see column 6, lines 6-11);

- the database conversion engine uploads a resulting set of data into the target database in accordance with the target schema specification (see column 9, lines 27-30).

As to claim 12, Abrams teaches a computer system for migrating a source database to a target database (see abstract and column 1, lines 5-7) comprising:

- a mapping specification (see column 18, lines 42-44);

- a data filter (see column 2, lines 44-49);

- a source extract format specification (see column 1, lines 19-22);

- a target schema specification (see column 7, lines 25-26); and

- a generically coded database conversion engine wherein the database conversion engine is coded to perform conversions independent of the specific source database and target database associated with a conversion (see column 1, lines 39-45 and column 5, lines 42-46);

wherein:

- the data filter formats the source data according to the source extract format specification (formatted source data) (see column 5, lines 59-63);

- the database conversion engine receives the formatted source data (see column 5, lines 33-38);

- the database conversion engine converts the formatted source data according to the mapping specification (converted data) (see column 1, lines 29-32);

- the database conversion engine formats the converted data in accordance with the target schema specification (target data) (see column 1, lines 29-32).

- the database conversion engine uploads the target data into the target database (see column 9, lines 27-30).

As to claim 13, Abrams teaches a computerized method for migrating a source database to a target database (see abstract and column 1, lines 5-7) comprising:

- a delimited source file associated with the source database (see column 6, lines 6-11);

- a source extract format specification (see column 1, lines 19-22);

- a set of mapping instructions (see column 1, lines 29-32; column 4, lines 31-37; column 6, lines 6-11; and column 7, lines 35-37);

- an industry-specific mapping instructions template (see column 18, lines 42-44);

- a mapping language (see column 2, lines 33-36);

- a target schema specification (see column 7, lines 25-26); and

- a generically coded database conversion engine wherein the database conversion engine is coded to perform conversions independent of the specific source database and target database associated with a conversion (see column 1, lines 39-45 and column 5, lines 42-46);

and further comprising the steps of:

- formatting the delimited source file according to the source extract format specification (formatted source data) (see column 5, lines 59-63);

- defining a set of requirements for the target database and encoding the requirements in the target schema specification (see column 1, lines 62-67);

- developing a set of mapping instructions, that define at least one translation instruction for the translation of the formatted source data from the source database to the target database, using the industry-specific mapping instruction template and further configuring the mapping instructions with commands developed with the mapping language via a graphical user interface (see column 7, lines 35-37 and column 18, lines 42-56);

- sending the formatted source data, the set of mapping instructions and the target schema specification to the database conversion engine (see column 1, lines 19-22; column 1, lines 29-32; column 4, lines 31-37; column 6, lines 6-11; column 7, lines 25-26; and column 7, lines 35-37);

- validating the formatted source data through a set of computer executable instructions encoded in the database conversion engine (see column 5, lines 30-38);
- parsing the set of mapping instructions (see column 1, lines 29-32; column 4, lines 31-37; column 6, lines 6-11; and column 7, lines 35-37);
- concurrently performing the set of mapping instructions on the formatted source data to produce a resulting set of data (see column 9, lines 27-30);
- validating the resulting set of data by comparing it to the target schema specification through a set of computer executable instructions encoded in the database conversion engine (see column 1, lines 62-67 and column 19, lines 8-12);
- uploading the resulting set of data into the target database (see column 9, lines 27-30).

As to claim 14, Abrams teaches a computerized method for migrating a source database to a target database (see abstract and column 1, lines 5-7) further comprising the steps of:

- defining at least one basic business object for the migration by analyzing the source database and the target database (see column 5, lines 59-63 and column 8, lines 41-43);

- configuring the source extract format specification and the target schema specification according to the basic business object (see column 5, lines 59-63 and column 11, lines 46-56);

- formatting data in the source database according to the source extract format specification to produce a file with repetitive instances of the at least one basic business object (formatted source data) (see column 5, lines 59-63).

Conclusion


7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belix M. Ortiz whose telephone number is 703-305-7605. The examiner can normally be reached on moday-friday 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 703-305-3830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

bmo

April 30, 2004.


DOV POPOVICI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100